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25 January 1974

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MEMORANDUM FOR THE RECORD

SUBJECT: Energy Statistics for Major Consuming Countries
(Primary Energy Consumption 1973 Estimate)

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1. The attached statistical appendix was prepared for a series of 8 interdepartmental Task Force papers on international energy initiatives to be proposed by the U.S. at the 11 February 1974 Foreign Ministers conference, called by the President. The appendix was transmitted to Mr. John A. Knubel of the Federal Energy Office.

2. The following individuals participated in this collection:

STAT

Chief,
International Energy & Resources Branch

Attachment:
as stated.

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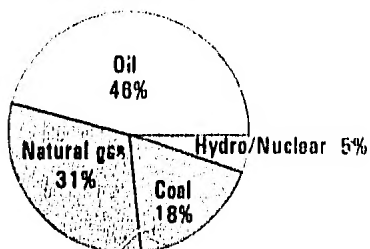
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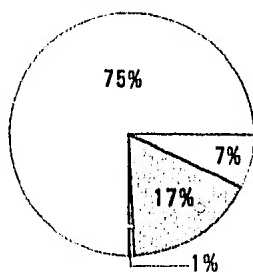
Primary Energy Consumption 1973 Estimate

Million b/d oil equivalent

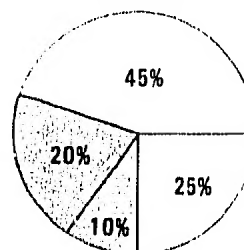
United States 37.1



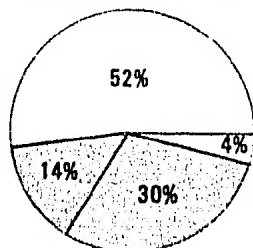
Japan 6.5



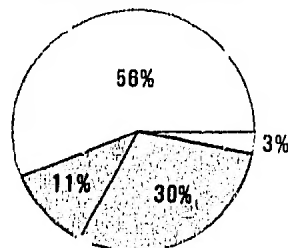
Canada 3.7



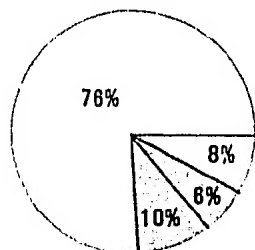
United Kingdom 4.5



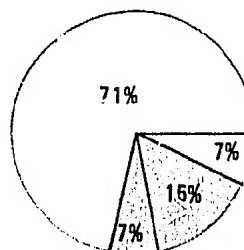
West Germany 5.2



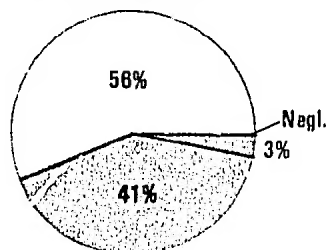
Italy 2.6



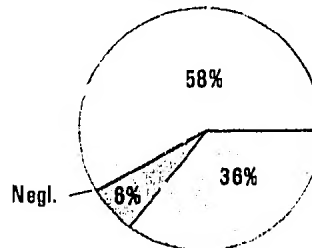
France 3.5



Netherlands 1.4



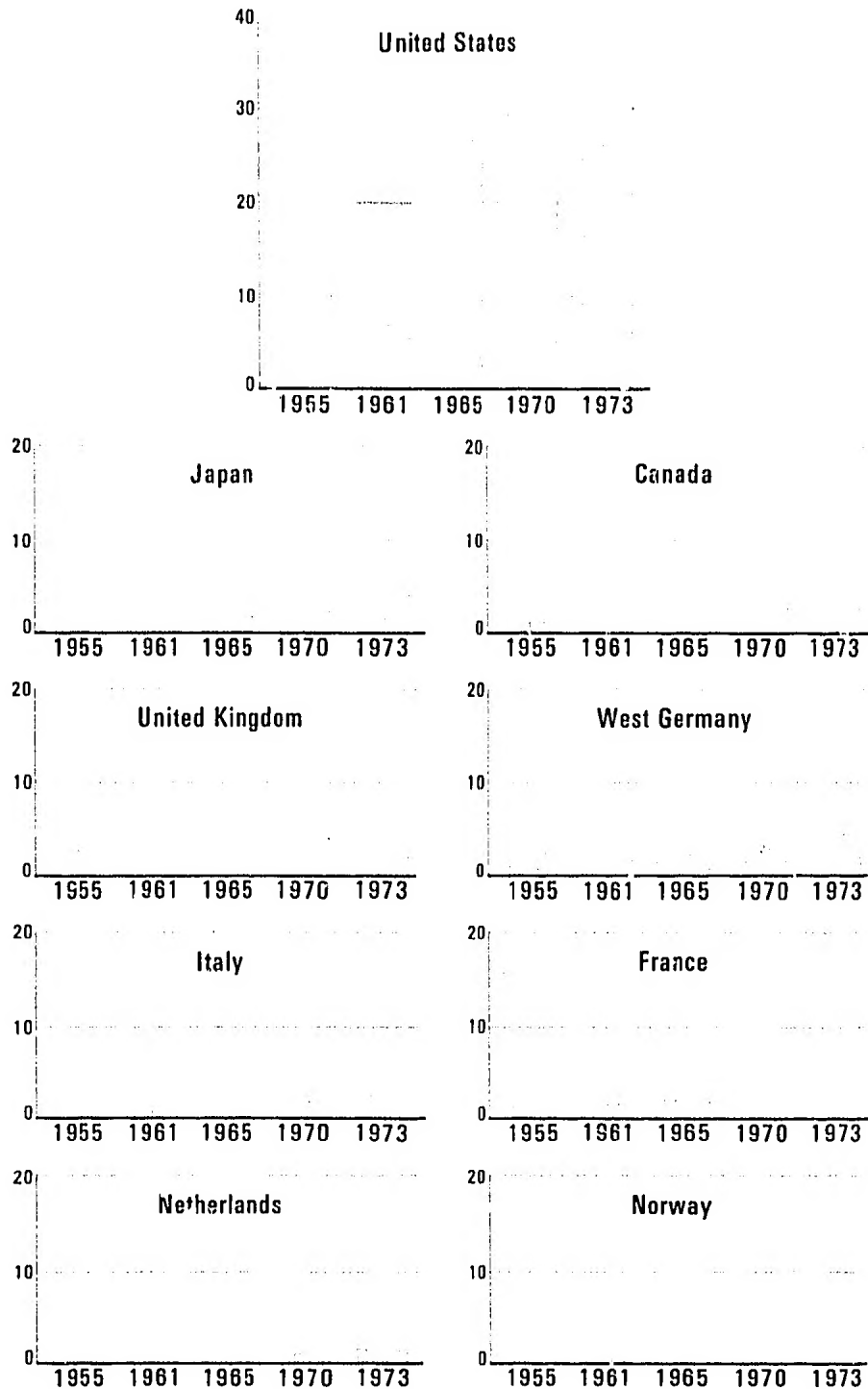
Norway 0.3



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Primary Energy Consumption

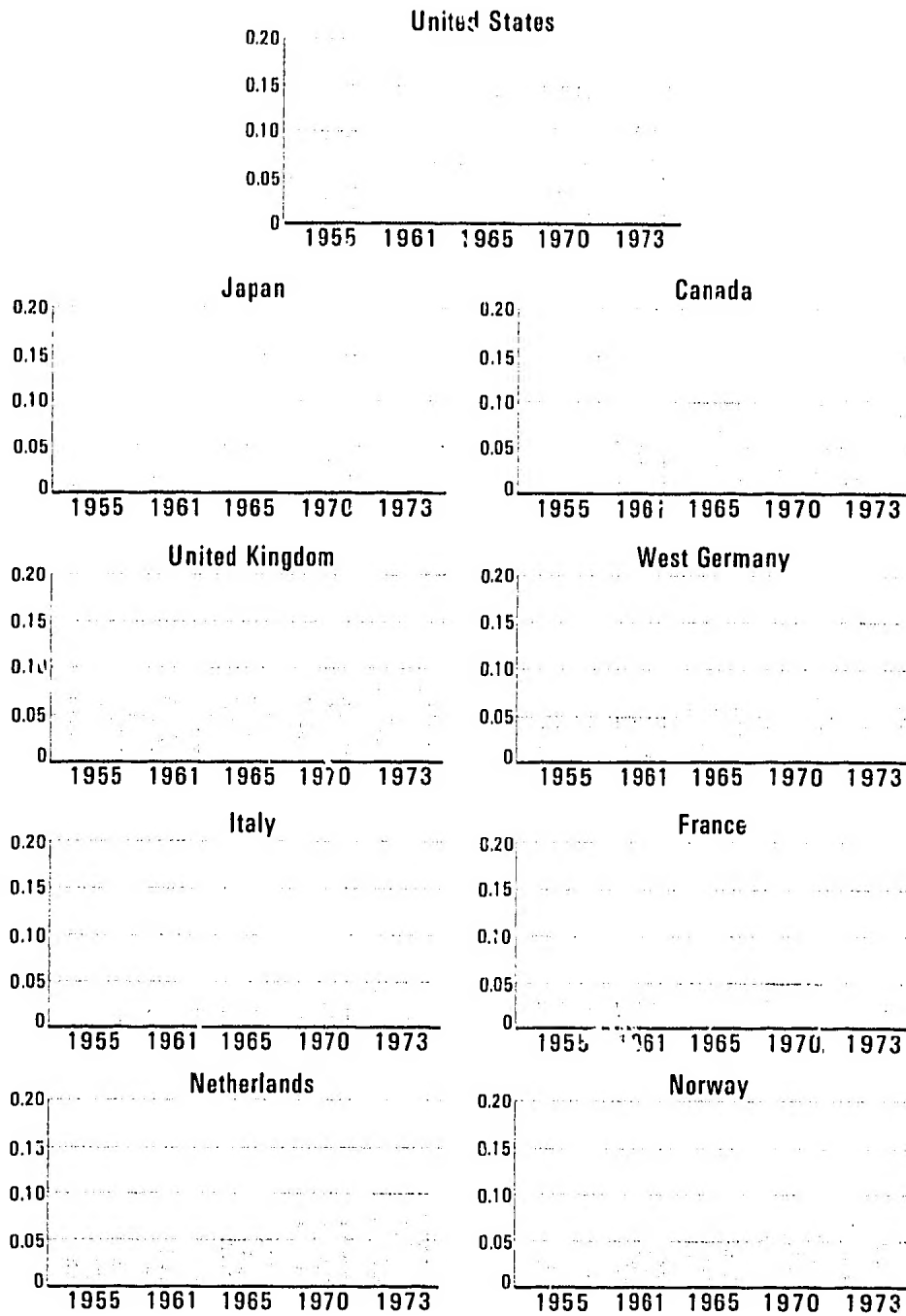
Total energy in million b/d oil equivalent



562567 1-74

Primary Energy Consumption Per Capita

Total energy in b/d oil equivalent

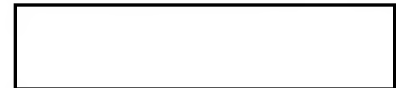


562565 1-74

Percent of Consumption Imported, by Source
1972

	United States	Japan	Canada	United Kingdom	West Germany	Italy	France	Nether- lands	Norway
Net imports									
Total energy	12	86	22 ¹	50	52	80	74	16	62
Oil	29	100	14 ¹	100	95	99	98	94	95
Natural gas	4	26	80 ¹	3	37	9	46	71 ¹	....
Coal	15	67	23	3	10 ¹	97	32	35	50
Hydro/nuclear	1 ¹	1	36	Negl.	10 ¹	Negl. ¹	3 ¹

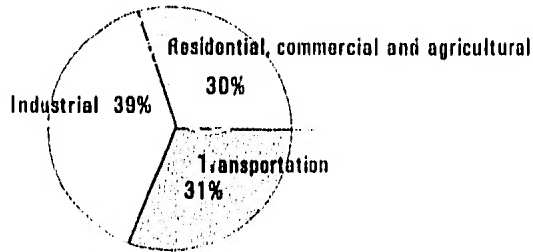
I. Net exports.



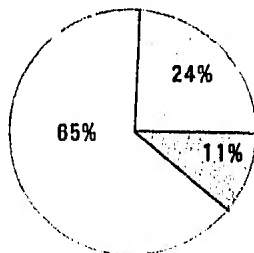
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Distribution of Energy Consumption by Sector, 1972

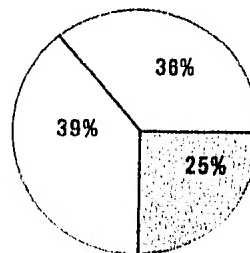
United States



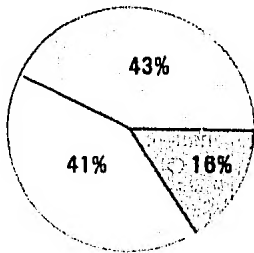
Japan



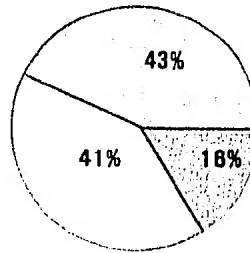
Canada



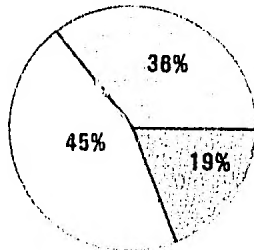
United Kingdom



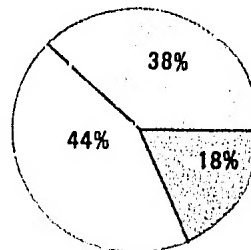
West Germany



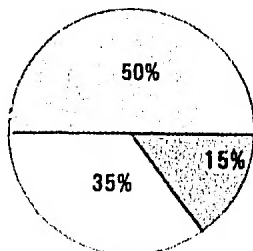
Italy



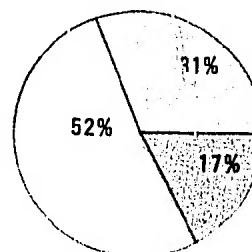
France



Netherlands

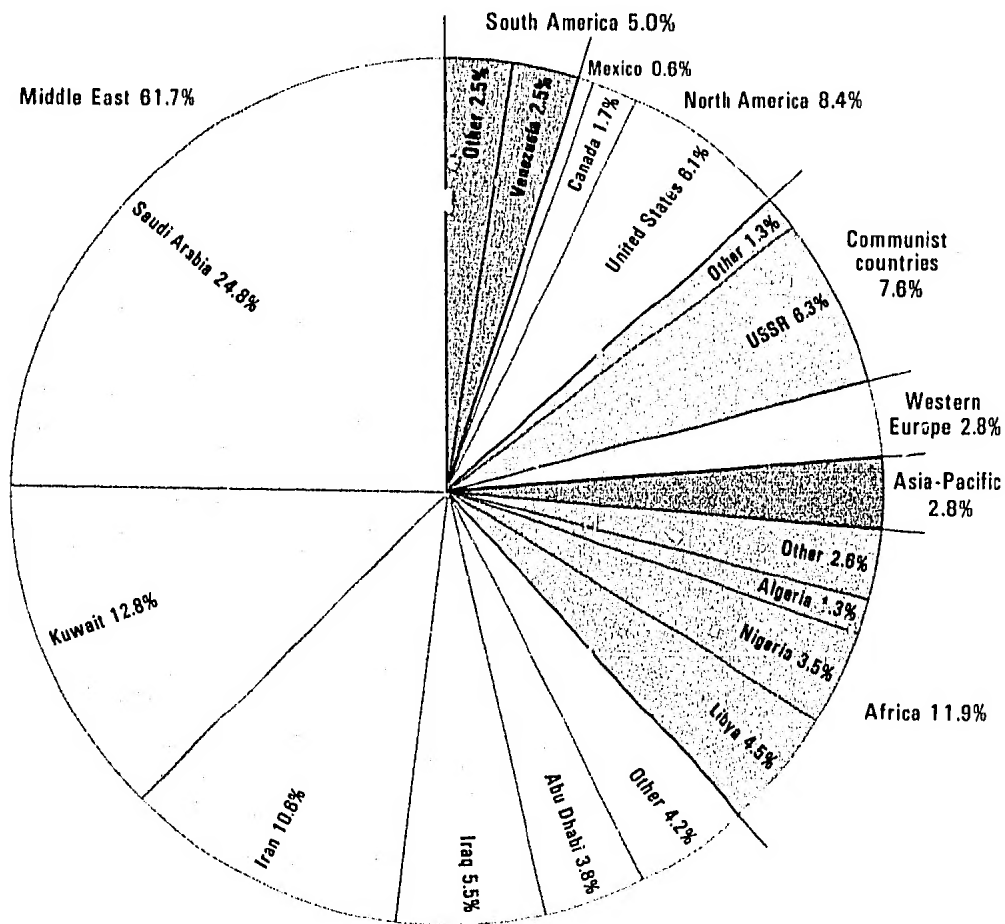


Norway



562569 1-74

World Proved Oil Reserves Year-end 1973



Total 567.8 billion barrels

564566 1-74

World Crude Oil Production

	September 1973 (Pre-Crisis Level)		1973 (Estimated)		January 1974 (Estimated)	
	Thousand b/d	Percent	Thousand b/d	Percent	Thousand b/d	Percent
Western hemisphere	16,045	27.7	16,122	28.9	16,170	28.7
United States	9,149	15.8	9,225	16.5	9,200	16.3
Venezuela	3,395	5.9	3,370	6.0	3,350	6.0
Canada	1,745	3.0	1,750	3.1	1,800	3.2
Mexico	470	0.8	478	0.9	500	0.9
Ecuador	210	0.4	197	0.4	220	0.4
Other	1,076	1.9	1,102	2.0	1,100	2.0
Eastern hemisphere	41,808	72.3	39,628	71.1	40,110	71.3
Western Europe	395	0.7	396	0.7	400	0.7
Middle East	22,899	39.6	21,337	38.3	21,330	37.9
Saudi Arabia	8,534	14.8	7,671	13.3	7,700	13.7
Iran	5,793	10.0	5,870	10.5	6,100	10.8
Kuwait	3,480	6.0	3,144	5.6	2,760	4.9
Iraq	2,167	3.7	1,960	3.5	2,200	3.9
Abu Dhabi (UAE)	1,381	2.4	1,286	2.3	1,200	2.1
Qatar	608	1.1	556	1.0	520	0.9
Oman	300	0.5	292	0.5	300	0.5
Dubai (UAE)	273	0.5	223	0.4	200	0.4
Other	363	0.6	335	0.6	350	0.6
Africa	6,163	10.7	5,840	10.5	5,830	10.4
Libya	2,286	4.0	2,190	3.9	1,940	3.4
Nigeria	2,102	3.6	2,020	3.6	2,250	4.0
Algeria	1,100	1.9	1,020	1.8	940	1.7
Other	675	1.2	610	1.1	700	1.2
Asia-Pacific	2,303	4.0	2,275	4.1	2,450	4.4
Indonesia	1,350	2.3	1,330	2.4	1,500	2.7
Other	953	1.6	945	1.7	950	1.7
Communist countries	10,048	17.4	9,780	17.5	10,100	17.9
USSR	8,663	15.0	8,400	15.1	8,700	15.5
China	1,000	1.7	1,000	1.8	1,000	1.8
Romania	275	0.5	280	0.5	300	0.5
Other	110	0.2	100	0.2	100	0.2
World total	57,853	100.0	55,750	100.0	56,230	100.0
Of which:						
OPEC members ¹	32,679	56.5	30,837	55.3	30,880	54.9
OAPC members ²	20,252	35.0	18,400	33.0	17,660	31.4

1. The members of the Organization of Petroleum Exporting Countries are Algeria, Ecuador, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

2. The members of the Organization of Arab Petroleum Exporting Countries are Algeria, Bahrain, Egypt, Iraq, Kuwait, Libya, Qatar, Saudi Arabia, Syria, and United Arab Emirates.

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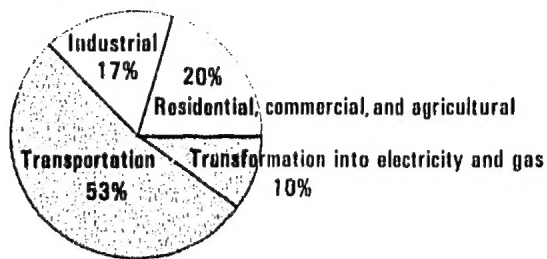
World Crude Oil Refining Capacity
Year-end 1973

	Thousand b/d	Percent of Total
Total	61,454.0	100.0
Eastern hemisphere	39,017.2	63.5
Middle East	2,882.2	4.7
Iran	660.0	1.1
Kuwait	646.0	1.1
Saudi Arabia	428.3	0.7
Turkey	305.5	0.5
Bahrain	250.0	0.4
Other	592.4	0.9
Africa	1,092.2	1.8
South Africa	331.0	0.5
Egypt	180.0	0.3
Other	581.2	1.0
Asia-Pacific	8,932.7	14.5
Japan	4,939.8	8.0
Singapore	699.6	1.1
Australia	680.9	1.1
India	499.1	0.8
Indonesia	427.7	0.7
South Korea	420.0	0.7
Other	1,265.6	2.1
Western Europe	18,110.1	29.5
Italy	3,882.0	6.3
France	3,140.0	5.1
West Germany	2,825.7	4.6
United Kingdom	2,762.1	4.5
Netherlands	1,825.5	3.0
Spain	1,163.0	1.9
Belgium	816.7	1.3
Greece	313.6	0.5
Sweden	248.0	0.4
Denmark	226.5	0.4
Austria	220.0	0.4
Finland	196.0	0.3
Norway	168.0	0.3
Switzerland	140.0	0.2
Portugal	110.0	0.2
Ireland	58.0	0.1
Cyprus	15.0	Negl.
Communist countries	8,000.0	13.0
USSR	6,500.0	10.6
Eastern Europe	1,500.0	2.4
Western hemisphere	22,436.8	36.5
North America	15,796.1	25.7
United States	13,383.0	21.8
Canada	1,788.1	2.9
Mexico	625.0	1.0
South America	6,640.7	10.8
Venezuela	1,531.6	2.5
Netherlands Antilles	945.0	1.5
Brazil	791.8	1.3
Argentina	623.6	1.0
Virgin Islands	590.0	1.0
Bahamas	500.0	0.8
Trinidad and Tobago	461.0	0.8
Other	1,197.7	1.9

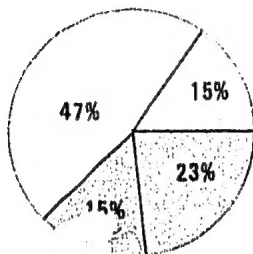
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Distribution of Oil Consumption by Sector, 1972

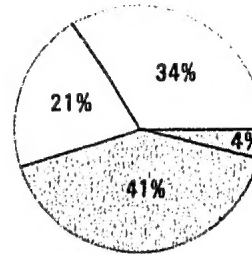
United States



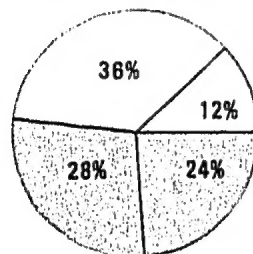
Japan



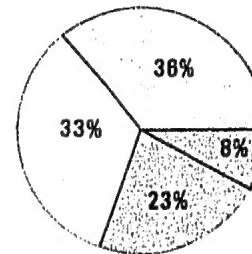
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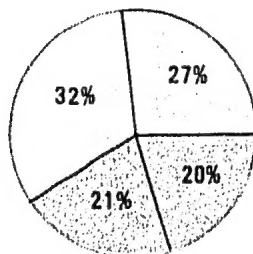
United Kingdom



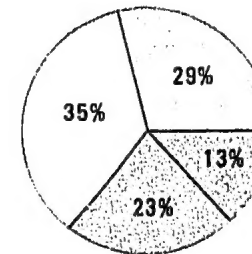
West Germany



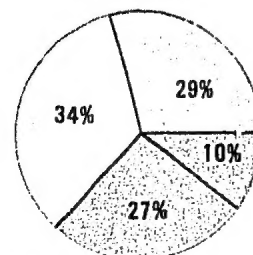
Italy



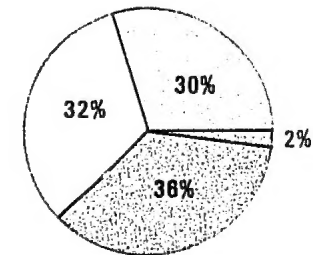
France



Netherlands



Norway



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Estimated Oil Imports, by Source
1973

Thousand b/d and Percent of Imports

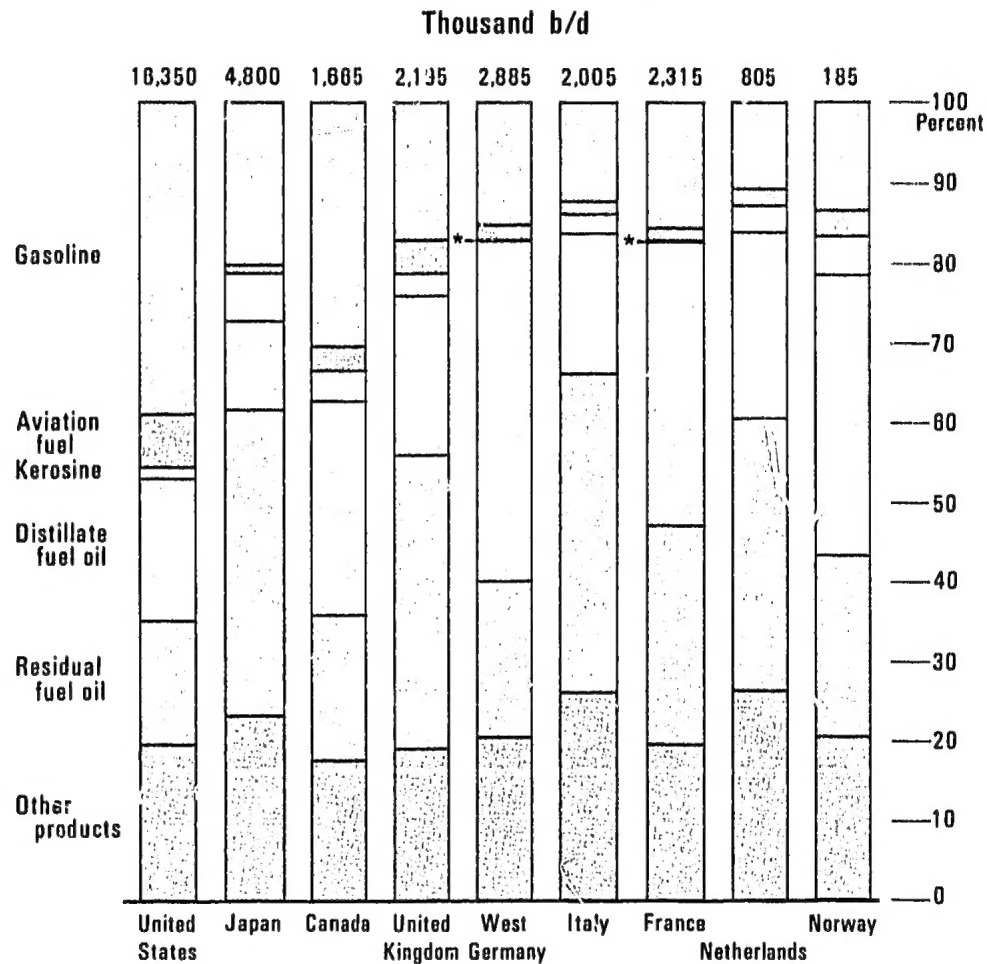
	Arab Countries														
	Total	Total	Saudi Arabia	Kuwait	Libya	Iraq	Abu Dhabi	Algeria	Other	Iran	Venezuela	Indonesia	Canada	Nigeria	Other
United States ¹	6,200	1,590	590	160	350	50	160	140	140	420	1,840	250	1,100	550	450
%	100.0	25.6	9.5	2.6	5.6	0.8	2.6	2.3	2.3	6.8	29.7	4.0	17.7	8.9	7.3
Japan ¹	5,400	2,390	1,240	540	20	Negl.	430	....	160	1,730	10	840	....	100	330
%	100.0	44.3	23.0	10.0	0.4	Negl.	8.0	....	3.0	32.0	0.2	15.6	....	1.9	6.1
Canada ¹	1,000	220	80	Negl.	40	20	60	....	20	180	470	Negl.	....	80	50
%	100.0	22.0	8.0	Negl.	4.0	2.0	6.0	....	2.0	18.0	47.0	Negl.	....	8.0	5.0
United Kingdom ²	2,330	1,480	550	400	240	40	50	50	150	460	80	Negl.	....	180	130
%	100.0	63.5	23.6	17.2	10.3	1.7	2.1	2.1	6.4	19.7	3.4	Negl.	....	7.7	5.6
West Germany ²	2,200	1,610	480	90	550	30	110	280	70	270	40	Negl.	....	200	80
%	100.0	73.2	21.8	4.1	25.0	1.4	5.0	12.7	3.2	12.3	1.8	Negl.	....	9.1	3.6
Italy ²	2,410	1,930	630	200	460	390	....	....	250	330	20	....	....	10	120
%	100.0	80.1	26.1	8.3	19.1	16.2	....	....	10.4	13.7	0.8	....	....	0.4	5.0
France ²	2,690	2,070	610	310	150	350	290	230	130	220	30	....	....	250	120
%	100.0	77.0	22.7	11.5	5.6	13.0	10.8	8.6	4.8	8.2	1.1	....	....	9.3	4.5
Netherlands ²	2,070	1,380	690	380	60	10	80	20	140	440	10	....	....	220	20
%	100.0	66.7	33.3	18.4	2.9	0.5	3.9	1.0	6.8	21.3	0.5	....	....	10.6	1.0
Norway ²	140	64	20	....	3	3	7	2	29	55	8	....	....	12	1
%	100.0	45.7	14.3	....	2.1	2.1	5.0	1.4	20.7	39.3	5.7	....	....	8.6	0.7

1. Allocates imports on a direct and indirect basis - i.e., refined products from export refineries are traced to the source of the crude oil.

2. Crude oil only; excludes crude oil transhipped by the Netherlands to other West European countries.

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Petroleum Product Consumption, 1972



Recent and Scheduled Reductions in Arab Oil Production¹

	1973				1974
	September	October	November	December	January
	Production (Thousand b/d)				
Total	20,129	18,520	15,560	15,980	17,760
Saudi Arabia ²	8,534	7,810	6,270	6,700	7,700
Kuwait ²	3,480	3,060	2,470	2,470	2,760
Libya	2,286	2,380	1,770	1,770	1,940
Iraq	2,167	1,800 ³	2,150	2,150	2,200
Abu Dhabi (UAE)	1,381	1,340	1,170	1,170	1,200
Algeria	1,100	1,020	820	820	940
Qatar	608	600	470	460	520
Oman	300	300	300	300	300
Dubai (UAE)	273	210 ⁴	140 ⁴	140 ⁴	200 ⁴
Percent Decrease from September 1973					
For all countries	....	8	23	21	12

Recent and scheduled reductions in Arab oil production measured against the production that previously had been expected for January 1974

	Thousand b/d									
	Saudi Arabia	Kuwait	Libya	Iraq	Abu Dhabi	Algeria	Qatar	Oman	Dubai	Total
Pre-cutback planned										
January production ⁵	9,700	3,500	2,300	2,200	1,700	1,100	650	300	300	21,750
Production shortfalls due to cutbacks										
Volume	2,000	740	360	....	500	160	130	....	100	3,990
%	21	21	16	....	29	15	20	....	33	18

1. This table illustrates the effect of the OAPEC decisions of 4 November and 25 December on Arab oil production through January 1974. Iraq did not sign the agreements and has not reduced production; Oman, which is not a member of OAPEC, is not expected to reduce production.

2. Including approximately one-half of Neutral Zone production.

3. Production reduced as a result of war damage to export facilities.

4. Dubai production reduced by offshore well fire.

5. Company forecasts where available; otherwise, OER estimate.